Documentation for Dental and Periodontal Substudy Dataset

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DENTAL AND PERIODONTAL SUBSTUDY

1. Design:

The study design for the periodontal examination of Health ABC participants originally proposed that all participants would be assessed to determine the eligibility criteria for the periodontal examination. Patients who were eligible for full periodontal examination would receive a soft tissue exam, hard tissue exam, tooth count, recording of denture wear and periodontal exam (plaque score, gingival index, and periodontal probing). For the Pittsburgh site a new exam, the BANA test, was incorporated into the periodontal examination at the end of October, 1998, for the eligible participants (508 of the total Pittsburgh periodontal cohort of 691 had BANA testing). Participants who were excluded by the eligibility criteria would receive partial examination. They received soft tissue exam, hard tissue exam, tooth count, recording of denture wear, and plaque scores. However, neither clinic was able to arrange full-time coverage of all exams by a dental hygienist. As much as possible, this substudy was extended into year 3 to catch participants not examined in year 2. Some participants had just tooth counts done by a trained Field Center examiner, but some participants never had an oral exam by a dental hygienist.

2. Sample characteristics:

The race and gender breakdown of participants in this substudy is as follows ("N(total)" is everyone in the entire dataset; "N(any perio)" is anyone with data from the Reading Center; "N(perio exam)" is anyone with Dent Cod=3 (eligible for periodontal exam):

	N(total)	N (any perio data)	N (perio exam)
African-American female	617	422	243
African-American male	474	341	186
White female	793	561	341
White male	884	651	401
Total	2768	1975	1171

3. <u>Data sources:</u>

The dataset for this substudy (Y3PERIO.sd2) comes from the Periodontal Reading Center (see variable list, Appendix I), the Year 2 Clinic Visit Workbook (pages 28-31), the Dental Examination Addendum: Hard Tissue Findings (year 2), and the Year 3 Dental and Periodontal Exam Workbook. All of the form data have been combined and renamed so that data from year 2 and year 3 have the same variable names (see annotated forms Appendix III). A complete list of variable names can be found in the Proc Contents (Appendix IV and zipped with data file).

A visit variable (YEAR) has been added to distinguish which participants were examined in Year 2 and which in Year 3. Some participants had data for both Year 2 and Year 3. Year 3 data were kept and Year 2 deleted, in this case. One participant (HB5586) had a partial periodontal exam during the Year 2 visit, then returned 8 months later for a full periodontal exam. The full exam data were retained, but the variable YEAR was coded as missing. The analyst may decide which year's exam data to compare to these findings, depending on the data of interest.

Three new variables have been added to help subset the data usefully for analysis:

BANAFLAG Indicates that the participant has BANA data

DENTFLAG Indicates that the participant has data from the Periodontal Reading Center

PERFLAG Indicates that the participant had a periodontal exam

4. Dataset structure and contents

The Y23PERIO dataset contains a single observation per participant.

Key variables:

HABCID HABC Enrollment ID without the 2-letter prefix SITE HABC Clinic site: 1=Memphis; 2=Pittsburgh

YEAR Year participant had the exam

5. Special Missing Value Codes

SAS allows for stratification of missing values. The following missing values have been assigned:

='Missing Form'

.A ='A:Not Applicable'

.F = 'F: Variable Missing from Form'

M = M:Missing'

.N ='N:Not Required'

.T ='T:Missing Due to Technical Problems'

.U ='Unacceptable'

Description

.: Missing Form

Used when a value is missing because the entire form has not been entered or the participant does not exist in the database from the corresponding Reading Center.

A: Not Applicable

Used when a value is missing but the value is not required (due to simple skip pattern logic)

F:Variable Missing from Form

Used when data are missing because the version of the form used to collect it did not contain that variable

M:Missing

Used to flag missing values when the value is required (i.e., true missing values).

N:Not Required

Used when a value is missing but the value is not required (not due to simple skip pattern logic). For example, for checkbox variables which are "Check all that apply": each one, individually, is not required. Some variables whose skip pattern logic is non-standard (i.e., the skip pattern involves several variables and forms) also have .N flags when missing, whether or not a response was required due to the skip pattern. In all of these cases, a special cross check was used to edit missing responses.

T:Missing Due to Technical Problems

Used when a value is missing from the Reading Center dataset due to technical difficulties. An explanation of when this value has been assigned can be found under Strengths and weaknesses of (Reading Center) dataset items.

U:Unacceptable

Used with certain Reading Center data when the data exist but cannot be used.

6. Dataset index formulation and key variable mapping

The dataset is sorted by HABCID, which is a unique identifier for each participant.

7. General strategies for manipulating and merging the data

Because the Health ABC datasets are sorted by Health ABC Enrollment ID, the HABCID variable is most useful for merging with other datasets. YEAR will allow the analyst to merge these files with the clinic visit data for the applicable year.

8. Stengths and weaknesses of dataset items:

The Periodontal Reading Center has added a number of summary functional unit variables to this version (3.13) of the dataset (see Appendix II).

The hard tissue exam (Dental Examination Addendum: Hard Tissue Findings) was not added until 9/25/98. In addition, there was some misunderstanding about how much of the hard tissue exam could safely be done on participants who were ineligible for the periodontal exam because of heart problems, compromised immunity, and other reasons for needing premedication with an antibiotic. Therefore some participants who were seen by a hygienist and could have had hard tissue data do not.

Since the forms were designed for all participants to be examined, there was not a good method of tracking who did and did not have a full dental exam. Periodontal eligibility questions were often completed by the regular examiner, and it is not always clear who completed other clinic form data. Therefore, it was not possible for the Coordinating Center to conclusively reconcile the Periodontal Reading Center database with the clinic visit workbook data, to ensure that all measurements made on Health ABC participants that should have been sent to and analyzed by the Reading Center did reach them and become part of their database. Considerable effort was expended on the part of the Periodontal Reading Center, in cooperation with both Field Centers, however, to ensure that those participants who really did have an exam by a hygienist did have all available data transferred to the Reading Center, and from the Reading Center to the Coordinating Center for inclusion the data analysis file.

The denture question in Year 2 was originally set up as a "check one" variable, rather than a "check all that apply" variable, which meant that participants with both upper and lower dentures could not have both entered into the dataset. This was corrected during editing using a variety of checks to ensure that partial data entry was caught. In addition, the first version of the form (in use until August, 1998) did not even include a question regarding denture wear. Thus, some participants will have missing data, even though they may wear dentures. The variables PDFUPPER, PDFLOWER, PDPUPPER, and PDPLOWER have been recoded to .F for these participants (see Special Missing

Value codes, above). Analysts are reminded that there was a question on the baseline questionnaire (Q136, page 64, OMUDENT) in which participants were asked whether they were dentures. This variable may be helpful in dealing with this problem.

In the Year 2 Clinic Visit Workbook, the soft tissue exam did not include a "no positive findings" option. Similarly, there was no way to record "no dentures." Therefore, for participants who were examined in Year 2 (YEAR=2), it was impossible to edit missings for either of these measurements. To further complicate matters, some hygienists marked the boxes "0" for no findings and "X" for positive findings, which would both be read as positive findings by the scanner. The Field Centers sent copies of page 31 to the Reading Center as part of their data transfer, and the Reading Center later sent back copies of those pages on which this error was detected. In addition, the Coordinating Center initiated an edit for all participants with more than 3 positive findings on the soft tissue exam, asking the editors to check whether the soft tissue exam findings had been entered correctly. Since the last release, the Reading Center capture of soft tissue findings has been extensively reconciled with the data entered at the Field Centers.

In Year 2 there was no lead-in question regarding whether the participant wore dentures. There was also no bubble for gingival tissue (PDGING) on the soft tissue findings question in Year 2. Therefore, participants who had their dental exam in Year 2 have PDGING, along with PDNOPOS and PDDENTUR, marked .F.

Appendix I

PERIODONTAL READING CENTER VARIABLE LIST

Variable Name	Variable Description	Variable Label	Value Label
BANAFLAG	Has BANA data	Flag set to 1 when ppt has BANA data	1=has BANA data
DENTFLAG	Has Periodontal Reading Center Data	Flag set to 1 when ppt has Perio RC data	1=has RC data
PERFLAG	Had a periodontal exam	Flag set to 1 when ppt had periodontal exa	1=had perio exam
BANARAT	Total number of BANA positive sites divided by the total number of sites sampled for the BANA test	Ratio of BANA-positive sites	0 to 1
BANA_RES	BANA test result	BANA test result	0=No positive sites 1=At least one positive site
DENT_COD	Dental Exam Tracking Code	Dental Track: (1Ed 2PMD 3Elig 4ref 5tootc)	1-Edentulous 2-Pre-med (ppt excluded for periodontal probing) 3-Full dental examination (ppt completed all dental and periodontal examination) 4-Refused 5-Tooth count only
DENT_REC	Dental Exam Recorder (if used instead of voice recognition software)	Recorder	
EDATE	Exam date	Exam date	MM/DD/YY
EDENT	Is ppt edentulous? (Y/N)	Edentulous YN	0=No 1=Yes
EXAMINER	Dental Examiner	Dental examiner	
EXTAL3	Extent of attachment loss greater or equal to 3mm Formula: (nal 3/nalsites)	Extent AL >=3mm (NAL_3/NALSITES)	0 to 1
EXTPD3	Summary variable: Extent of pockets greater or equal to 3mm(NPD 3/npdsites)	Extent PD >=3mm (NPD_3/NPDSITES)	0 to 1
EXTPD4	Summary variable: Extent of pockets greater or equal to 4mm (NPD_4/npdsites)	Extent PD >=4mm (NPD_4/NPDSITES)	0 to 1

EXTPD5	Summary variable: Extent of pockets greater or equal to	Extent PD >=5mm (NPD 5/NPDSITES)	0 to 1
	5mm(NPD 5/npdsites)		
EXTPD6	Summary variable: Extent of	Extent PD >=6mm	0 to 1
	pockets greater or equal to	(NPD 6/NPDSITES)	
	6mm(npd_6/npdsites)		
Variable Name	Variable Description	Variable Label	Value Label
MEANAL	Summary variable: Mean attachment loss.	Mean AL	
MEANGI	Summary variable: Mean gingival	Mean Gingival Index Score	
	index (gingivitis)		
	* Reflects the levels of gingival		
	inflammation.		
MEANPD	Mean pocket depth	Mean PD	
MEANPL	Summary variable: Mean plaque	Mean Plaque Score	
	index.	1	
	* Reflects the levels of plaque		
	accumulation.		
NALSITES	Number of attachment loss sites	Number AL Sites	
NAL 3	Number of attachment loss sites	Number AL Sites >=3mm	
_	>3mm		
NO_TEETH	Total number of natural teeth	Total Number Of Natural	
_		Teeth	
NO_TEET1	Total number of teeth	Total natural teeth without	
TO_TEETT	WITHOUT	3rd molars	
	the 3rd molars	ord morars	
NPDSITES	Number of pocket depth sites	Number PD Sites	
NEDSITES	probed	Number FD Sites	
NPD 3	Number of pocket depth sites ≥ 3	Number PD Sites >=3mm	
NPD 4	Number of pocket depth sites ≥ 3	Number PD Sites >=4mm	
NPD_6	Number of pocket depth sites ≥ 5	Number PD Sites >=5mm	
NPD_6	Number of pocket depth sites ≥ 6	Number PD Sites >=6mm	
ORALLES	Presence of oral lesions	Oral lesions	0=no
			1=yes
			?=unknown
POS	Number of BANA sites positive	Number of BANA sites	
		positive	
FU11_41	Function unit pair 11-41/ anterior	Function unit pair 11-41/	0 and 1
		anterior	
FU12_42	Function unit pair 12-42/ anterior	Function unit pair 12-42/	0 and 1
E1112 42	F .: 12.42/	anterior 12 42/	0 11
FU13_43	Function unit pair 13-43/ anterior	Function unit pair 13-43/	0 and 1
E1114 44	Experien unit main 14 44/Diment	anterior Experience unit pair 14 44/	0 and 1
FU14_44	Function unit pair 14-44/ Bicuspid	Function unit pair 14-44/	U and 1
EII15 15	Function unit pair 15-45/ Bicuspid	Bicuspid Function unit pair 15-45/	0 and 1
FU15_45	runction unit pair 13-43/ Bicuspid	Bicuspid	o and i
FU16_46	Function unit pair 16-46/Molar	Function unit pair 16-	0 and 1
1010_40	1 unction unit pair 10-40/Moral	46/Molar	o and i
FU17_47	Function unit pair 17-47 /Molar	Function unit pair 17-47	0 and 1
101/_1/	I diletion unit pun 17-47/1910iai	/Molar	o unu i
FU21 31	Function unit pair 21-31/anterior	Function unit pair 21-	0 and 1
	F	31/anterior	
	25	Health ABC Data Analysis File	M : 2.12 (7/02)

FU22_32	Function unit pair 22-32/anterior	Function unit pair 22-	0 and 1
		32/anterior	
FU23_33	Function unit pair 23-33/anterior	Function unit pair 23-	0 and 1
		33/anterior	
FU24 34	Function unit pair 24-34/Bicuspid	Function unit pair 24-	0 and 1
_	•	34/Bicuspid	

Variable Name Variable Description		Variable Label	Value Label
FU25_35	Function unit pair 25-35 /Bicuspid	Function unit pair 25-35 /Bicuspid	0 and 1
FU26_36	Function unit pair 26-36/Molar	Function unit pair 26-36/Molar	0 and 1
FU27_37	Function unit pair 27-37/Molar	Function unit pair 27-37/Molar	0 and 1
FUAnt	Summary variable: total number functional tooth units on anterior teeth.	total number functional tooth units on anterior teeth.	0 to 6
FUBic	Summary variable: total number of functional tooth units on bicuspid teeth.	Total number of functional tooth units on bicuspid teeth.	0 to 4
FUMolar	Summary variable: total number of functional tooth units on molar teeth.	Total number of functional tooth units on molar teeth.	0 to 4
FUpost	Summary variable: total number of posterior functional tooth units (molars+bicuspid teeth)	Total number of posterior functional tooth units	0 to 8
FUS	Summary variable: Posterior functional tooth units score (pairs of occluding natural, restored post canine teeth, excluding third molars): Molar pairs=2 units and bicuspid pairs=1 unit (1, 2).	Posterior functional tooth units score	0 to 12
FUSS	Summary variable: Total functional tooth units score (pairs of occluding natural, restored teeth, excluding third molars): Molar pairs=2 units, Bicuspid pairs=1 unit, anterior pairs=1 unit.	Total functional tooth units score	0 to 18
FUTotal	Summary variable: total number of functional tooth units (molars+bicuspid+anterior teeth)	Total number of functional tooth units	0 to 14

Appendix II

FUNCTIONAL TOOTH UNITS

Function Units:

Functional unit measures, which included functional arrangement of the teeth and the number and type of teeth present, were found to be more discriminatory and descriptive of masticatory potential than a simple count of the number of teeth. Elderly persons (> or = 60 years of age) with reduced numbers of functional units tended to report difficulty chewing, avoidance of stringy foods (including meat), crunchy foods (including vegetables), and dry solid foods (including breads), and difficulty in swallowing. Removable prostheses did not appear to prevent these consequences and do not appear to be equivalent to natural teeth in terms of masticatory potential.

We calculated function units by looking for all '*natural occlusal units*' (defined as pairs of opposing teeth that support the occlusion). Prosthesis and implants teeth were excluded. The diagram shows how we created the pairs:

1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2
8	7	6	5	4	3	2	1	1	2	3	4	5	6	7	8
3	4	4	4	4	4	4	4	3	3	3	3	3	3	3	3
8	7	6	5	4	3	2	1	1	2	3	4	5	6	7	8

- Posterior function units are: 17/47, 16/46 (molars teeth) and 15/45, 14/44 (pre-molars teeth)
- Anterior function units are: 14/43, 12/42, 11/41 (includes incisors and canines teeth)
- Function units 18/38 and 28/38 are third molars. They were excluded from the analysis.
- A person can have a total of 14 'natural occusal units' when we exclude third molars.

The variables that we created for function units are:

- 1. Each individual pair was recorded as present or absent (0= absent and 1= present) FU11_41, FU12_42, FU13_43, FU14_44, FU15_45, FU16_46, FU17_47, FU21_31, FU22_32, FU23_33, FU24_34, FU25_35, FU26_36, FU27_37
- 2. FUAnt: This variable represents the total number of function units present on anterior teeth (we included incisors and canines).
- 3. FUBic: Represents the total number of function units present on bicuspid teeth.
- 4. FUMolar: Represents the total number of functional tooth units on molar teeth.
- 5. FUTpost: Represents the total number of function units present on posterior teeth; we included molars and bicuspid teeth.

- 6. FUTotal: Function unit total represents the total number of function units present (FUAnt + FUPost).
- 7. 2- FUS is a **summary variable** that represents <u>posterior</u> functional tooth units. For calculating this variable we included molars and bicuspids. However, we determined scores for each function unit based on masticatory potential. Molars pairs were given a score of 2 units and bicuspid pairs=1 unit.
- 8. FUSS is a **summary variable** that represents <u>all</u> functional tooth units. For calculating this variable we included molars, bicuspids and anterior teeth. However, we determined scores for each function unit based on masticatory potential. Molars pairs were given a score of 2 units, bicuspid pairs=1 unit, anterior teeth 1 unit.

References:

- 1. Hildebrandt GH. Dominguez BL. Schork MA. Loesche WJ. Functional units, chewing, swallowing, and food avoidance among the elderly. Journal of Prosthetic Dentistry. 77(6):588-95, 1997 Jun.
- 2. R. S. Shinkai, J. P. Hatch, S. Sakai, C. C. Mobley, M. J. Saunders, and J. D. Rugh. Oral function and diet quality in acommunity-based sample. J. Dent. Res. 2001 80: 1625-1630.

Appendix III

DENTAL AND PERIODONTAL EXAM WORKBOOK



HABC Enrollment ID #	Acrostic	Date	Form Co	mpleted	Staff ID #
H			/	/	
HABCID A	CROSTIC	Month	Day	Year	
	ACKOOTIO			F	PDSTFID

DENTAL AND PERIODONTAL EXAM WORKBOOK

PROCEDURECHECKLIST

Test	Page Numbers	Plea	se check if d	lone	Comments
		Yes	No, participant refused	No, other reason	
Was eligibility for periodontal exam assessed?	1	1	0	2	
2. Dental Examination	5	1	0	2	
3. Periodontal Assessment					
a. Missing Teeth	7	1	0	2	
b. Plaque Score	7	1	0	2	
c. Gingival Index	7	1	0	2	
d. Periodontal Examination	7	①	0	2	
PITTSBURGH ONLY: 4. Was plaque collected?		1	0	2	
PITTSBURGH ONLY: 5. BANA Test	10	1	0	2	
MEMPHIS ONLY:		Yes	No		
6a. Were pages 5 to 9 sent to Pittsburgh Periodontal Reading Center?		1	0		
PITTSBURGH ONLY:		Yes	No		
6b. Were pages 5, 6, and 10 sent to Pittsburgh Periodontal Reading Center?		1	0		



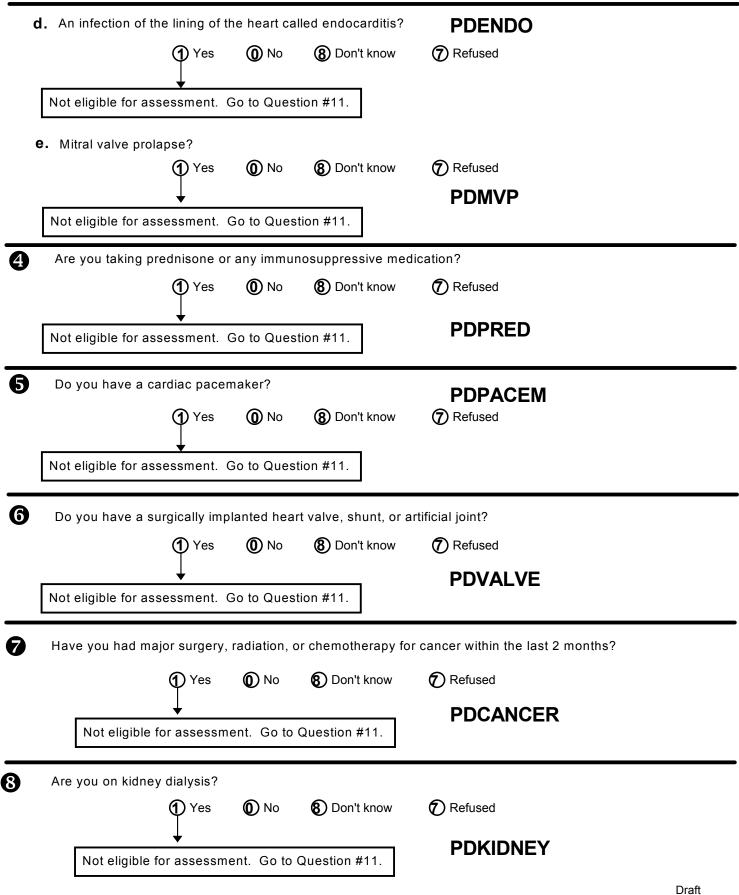


HABC Enrollment ID #	Acrostic	Date Form Completed	Staff ID #
		Month Day Year	

	PERIODON	IAL EXAIV	<u>i Eligibili i</u>	I I ASSESSI	<u>vien i</u>
_	_	_		(7) Refused	
a. How If you LSTTH b. Do yo	many years ago did u are unsure, please years ou have any dental in 1 Yes No	you lose your last make your best gu PDLTOOT Less than 1 year mplants? PDIMI B Don't know	tooth? Jess. TH ago PLNT Refused	(f) Refused	
Has a dentist	or a doctor ever told	you that you need	to take antibiotics be	efore every dental vis	it?
PDANTIBI	1 Yes	◎ No	8 Don't kno	w	Refused
	↓		to Question #3.		
	urmur?	Yes	No 8 Don't		d
-	roblem you were bor		PDC	•	d
c. Rheumati		Yes essment. Go to Q	PDI	O	d Draft
	a. How if you LSTTH b. Do you Not Has a dentist PDANTIBI Asse explain with the eligible for assemble as a doctor even a. A heart more than the eligible for assemble to the eligible for as	A heart murmur? Not eligible for assessment. Go to Que a. A heart murmur? Not eligible for asses b. Congenital heart disease? (a heart problem you were bor Not eligible for asses C. Rheumatic heart disease?	Do you have any of your natural teeth? PDNTE Yes A. How many years ago did you lose your last if you are unsure, please make your best gut years Do you have any dental implants? Do you have any dental implants? Do you have any dental implants? Not eligible for assessment. Go to Question That is a dentist or a doctor ever told you that you need PDANTIBI Yes Not eligible for assessment. Go to Question #11. That a doctor ever told you that you have any of the foll a. A heart murmur? Not eligible for assessment. Go to Question #15. The same and th	Do you have any of your natural teeth? PDNTEETH	A. How many years ago did you lose your last tooth? If you are unsure, please make your best guess. PDLTOOTH years Less than 1 year ago b. Do you have any dental implants? PDIMPLNT Yes No a Don't know Refused Not eligible for assessment. Go to Question #11. Has a dentist or a doctor ever told you that you need to take antibiotics before every dental vise. PDANTIBI Yes O No Go to Question #3. Go to Question #3. Has a doctor ever told you that you have any of the following? PDMURMUR a. A heart murmur? Not eligible for assessment. Go to Question #11. b. Congenital heart disease? (a heart problem you were born with) Not eligible for assessment. Go to Question #11. c. Rheumatic heart disease? Yes No Bon't know Refused PDCHSRD Refused PDRHD

Health

PERIODONTAL EXAM ELIGIBILITY ASSESSMENT





Have you had a heart, kidney, or other organ transplant? PDTRNPLT Yes		ABC: Interest Interes	
(Examiner Note: If participant says they used another diet pill but they do not remember the name of the pill, mark "Yes.") Yes	9	1 Yes 0 No 8 Don't know	_
Eligible for the periodontal exam (Examiner Note: Read the statement below.) This next measurement includes a simple examination of your mouth to see if there are any cavities, gum disease, or spaces between your teeth and gums. We will also collect a little plaque and pick up some fluid from around your teeth. Most people find these procedures quite comfortable. Do you have any questions? If you would like us to send your dentist a copy of your dental exam report, please provide us with their name and address. Dentist's Name: Not eligible for the periodontal exam; however, do conduct dental exam and complete pages # 5, 6, and page 7, Section 1. (Examiner Note: Read the statement below.) Thank you for your responses. This next measurement includes a simple examination of your mouth.	10	(Examiner Note: If participant says they used an remember the name of the pill, mark "Yes.") 1 Yes No 8 Don't know	Refused
		Eligible for the periodontal exam. (Examiner Note: Read the statement below.) This next measurement includes a simple examination of your mouth to see if there are any cavities, gum disease, or spaces between your teeth and gums. We will also collect a little plaque and pick up some fluid from around your teeth. Most people find these procedures quite comfortable. Do you have any questions? If you would like us to send your dentist a copy of your dental exam report, please provide us with their name and address. Dentist's Name:	Not eligible for the periodontal exam; however, do conduct dental exam and complete pages # 5, 6, and page 7, Section 1. (Examiner Note: Read the statement below.) Thank you for your responses. This next measurement includes a simple examination

Bar Code Labe

PDBRCD





HABC Enrollment ID #	Acrostic	Date Form Completed	Staff ID #					
		Month Day Year						

DENTAL EXAMINATION

PDSTFID2

(Examiner Note: Mark all positive findings and comment. If no positive findings, mark "No positive findings.")

(-1) Lips **PDLIPS**

Comment:

- (1) Labial mucosa PDLABMUC
- (-1) Buccal mucosa
 - **PDBUCMUC**

(-1) Cheeks **PDCHEEKS**

(-1) Palate **PDPALATE**

(-1) Uvula

PDUVULA

- C Dorsal tongue **PDDORTON**
- (-) Vent tongue
- **PDVENTON** (-1) Floor of mouth

PDFLOORM

- Gingival tissue
- **PDGING** (-) No positive findings

PDNOPOS

(Analyst Note: The two variables above did not exist in Y2.)

2 DENTURES

Does the participant wear dentures (either partial or full)?

(1) Yes

(0) No

PDDENTUR

(Analyst Note: This variable did not exist in Y2.)

What dentures does the participant wear? (Examiner Note: Mark all that apply.)

- (1) Full Upper **PDFUPPER**
- Full Lower **PDFLOWER**
- (-1) Partial Upper **PDPUPPER**
- Partial Lower **PDPLOWER**







HABC Enrollment ID #	Acrostic	Date Form Completed Staff ID #
		Month Day Year

DENTAL EXAMINATION

HARD TISSUE FINDINGS

8		ve any natural teeth? Refer to Page #2, Question #	‡1 on Periodo	ontal Exam Eligibility A	ssesment form.)
		① Yes	No No		
			STOP		
Is (are	e) there?				
4	Probable caries?	1 Yes	① No	PDCARIE1	
		Number of teeth involved:		PDCARIE2	
6	Mobility?	1 Yes	① No	PDMOBIL1	
		Number of teeth involved:		PDMOBIL2	
6	Root fragment(s)?	1 Yes	() No	② Unable to determine	PDROOT1
		Number of teeth involved:		PDROOT2	
9	Furcation? (Ability to probe between roots of a t	ooth) Yes	⊚ No (② Unable to determine	PDFURC1
		Number of teeth involved:		PDFURC2	





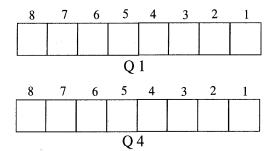
HABC Enrollment ID #	Acrostic	Date Form Completed	Staff ID #				
		Month Day Year					

PERIODONTAL EXAMINATION:

BACKUP FOR VOICE RECOGNITION

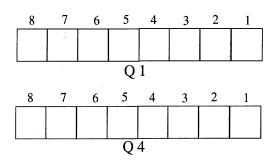
Examiner Note: If voice-recognition system is not working, record data below.

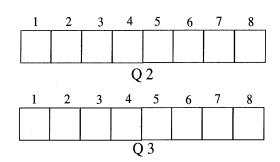
0	Is participant completely edentulous?	Yes	○ No	
	Missing Teeth (check all missing teeth)			



	1	2	3	4		6	/	8
				Q	2			
				`				
	1	_	2	1	5	6	7	Q
	1	2	3	4	3	O	1	o
ſ	1	2			, 	0		•
	1	2	3	-4	3	0	,	0

Plaque Score (0-3)





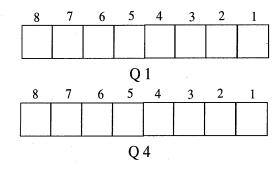
PERIODONTAL EXAMINATION

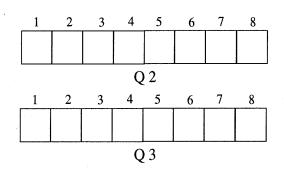
Does participant meet ELIGIBILITY criteria for periodontal examination?

Over	\bigcirc
()Yes	() No

(Examiner Note: Refer to Periodontal Exam Eligibility Assessment Form, Question #11, page 4 to determine if participant is eligible for the following procedures.)

Gingival Index (0-3)





GCF ID:	Plaque ID:

Draft



HABC Enrollment ID #	Acrostic					

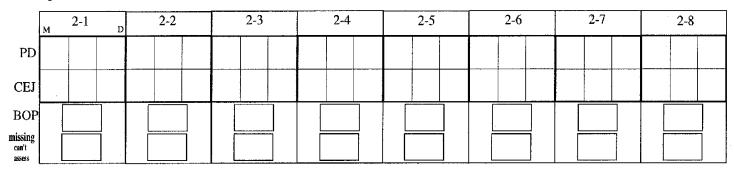
PERIODONTAL EXAMINATION

PD=Probing depth; CEJ=Cemento-enamel junctions; BOP=Bleeding on probing **FACIAL**

Quadrant 1

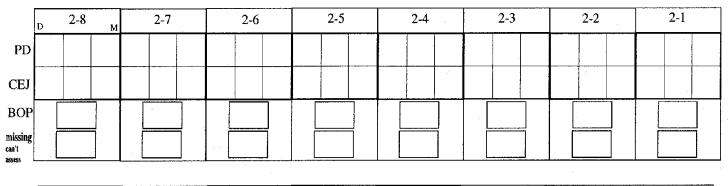
	D	1-8	М	1-7	1-6			1-5			1-4			1-3				1-2	1-1			
PD																	,					
CEJ																						
BOP		'				,																
missing can't assess								F						F								

Quadrant 2



LINGUAL

Quadrant 2



	M	1-1	Đ	1-2		1-3		1-4			1-5			1-6			1-7	1-8		
PD																				
CEJ					·															
ВОР																				
missing can't assess																				

PD/CEJ = mm; BOP: 0=no, 1=yes; Missing = M; Can't Assess = 9



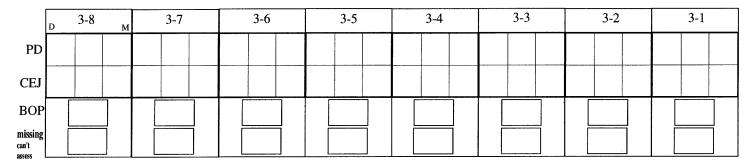
HABC	Enrollr	ı	Acro	osti	2				

PERIODONTAL EXAMINATION

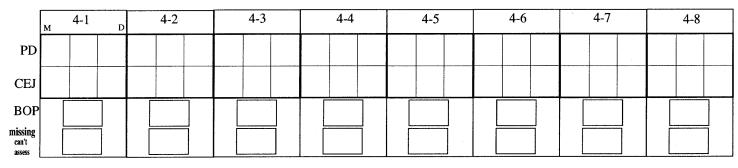
FACIAL

PD=Probing depth; CEJ=Cemento-enamel junctions; BOP=Bleeding on probing

Quadrant 3



Quadrant 4



LINGUAL

Quadrant 4

	D	4-8	М	4-7		4-6		4-5		4-4		4-3		4-2		4-1	
PD													-				
CEJ)							
BOP		-															
missing can't assess		- Interior															

Quadrant 3

	М	3-1	D	,	3-2	3-3		3-4		3-5		3-6		3-7		3-8	
PD											-						
CEJ																	
BOP										· ·							
missing can't assess]				

PD/CEJ = mm; BOP: 0=no, 1=yes; Missing = M; Can't Assess = 9

Page Link #



HABC Enrollment ID #	Acrostic	Date Form Completed	Staff ID #
		Month Day Year	

BANATEST

			=	
Tooth Number	Tooth Site	Negative	Weak Positive	Positive
Tooth Number	Tooth Site	Negative	Weak Positive	Positive
Tooth Number	Tooth Site	Negative	Weak Positive	Positive
	<u> </u>			
Tooth Number	Tooth Site	Negative	Weak Positive	Positive
		-		



Health ABC Project

14:59 Friday, May 16, 2003

The CONTENTS Procedure

Data Set Name: DAF.Y23PERIO Observations: Variables: 2768 Member Type: Engine: DATA 103 ٧6 Indexes: Created: 14:52 Friday, May 16, 2003 Last Modified: 14:52 Friday, May 16, 2003 Observation Length: 808 Deleted Observations: 0 Protection: Compressed: ΝO Data Set Type: Sorted: NO Label:

----Engine/Host Dependent Information----

Data Set Page Size: 16
Number of Data Set Pages: 14
First Data Page: 1
Max Obs per Page: 20
Obs in First Data Page: 4
Number of Data Set Repairs: 0 16384 140 1 20

i:\habc_sas\data analysis file\y23perio.sd2 6.08.00 File Name:

Release Created: Host Created: WIN

----Alphabetic List of Variables and Attributes----

#	Variable	Туре	Len	Pos	Format	Informat	Label
101	BANAFLAG	Num	8	784			Flag set to 1 when ppt has BANA data
29 30	BANARAT BANASITE BANA_RES DENTFLAG	Num Num	8	210 218 226 776			Ratio of BANA-positive sites NUMBER OF BANA SITES SAMPLED Bana test result Flag set to 1 when ppt has Perio RC data
8	DENT_COD	Num	8	50			Dental Track:1Ed 2PMD 3Elig 4ref 5tootc
52 11 7 25	DENT_REC EDATE EDENT EXAMINER EXTAL3	Num Num Char	8 8 5 8	40 402 74 45 186	MMDDYY10.	MMDDYY6.	RECORDER Exam Date Edentulous YN Dental examiner Extent AL >=3mm (NAL_3/NALSITES) Extent PD >=3mm
19	EXTPD4	Num	8	138			(NPD_3/NPDSITES) Extent PD >=4mm
20	EXTPD5	Num	8	146			<pre>(NPD_4/NPDSITES) Extent PD >=5mm (NPD_5/NPDSITES)</pre>
21	EXTPD6	Num	8	154			Extent PD >=6mm
39	FU11_41	Num	8	298			(NPD_6/NPDSITES) Function unit pair 11-41/anterior
40	FU12_42	Num	8	306			Function unit pair 12-42/anterior

----Alphabetic List of Variables and Attributes----

# Variab	је Туре	Len Pos	Format	Informat	Label
41 FU13_43	Num	8 314			Function unit pair
35 FU14_4	4 Num	8 266			13-43/anterior Function unit pair
36 FU15_4	5 Num	8 274			14-44/bicuspid Function unit pair
31 FU16_4 32 FU17_4		8 234 8 242			15-45/bicuspid Function unit pair 16-46/molar Function unit pair 17-47/molar
42 FU21_3		8 322			Function unit pair 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,
43 FU22_3	32 Num	8 330			Function unit pair 22-32/anterior
44 FU23_3	3 Num	8 338			Function unit pair 23-33/anterior
37 FU24_3	4 Num	8 282			Function unit pair 24-34/bicuspid
38 FU25_3	S5 Num	8 290			Function unit pair 25-35/bicuspid
33 FU26_3 34 FU27_3		8 250 8 258			Function unit pair 26-36/molar Function unit pair 27-37/molar
46 FUANT	Num	8 354			Total number functional units on anterio
47 FUBIC	Num	8 362			Total number functional units on bicuspi
45 FUMOLA	R Num	8 346			Total number functional units on molar t
48 FUPOST	Num	8 370			Total number of posterior functional uni
50 FUS	Num	8 386			Posterior functional tooth units score
51 FUSS	Num	8 394			Total funcational tooth units score
49 FUTOTA		8 378			Total number of functional tooth units
3 GENDER 1 HABCITE 24 MEANAI 26 MEANGI 17 MEANPI 27 MEANPI 22 NALSI 23 NALSI 31 NO_TEE 12 NPDSI 13 NPD_3 14 NPD_4 15 NPD_6 5 ORALLE	Num		GENDER. 11.	11.	Gender HABC Enrollment ID Mean AL Mean Gingival Index Score Mean PD Mean Plaque Score Number AL Sites Number AL Sites >=3mm TOTAL NUMBER OF NATURAL TEETH Number PD Sites Number PD Sites >=3mm Number PD Sites >=4mm Number PD Sites >=5mm Number PD Sites >=5mm Number PD Sites >=6mm Oral lesions1=yes0= no

-----Alphabetic List of Variables and Attributes-----

#	variable	Туре	Len	Pos	Format	Informat	Label
66 F	PDANTIBI N	Num	8 5	509 Y	YNDK.	3.	Q2.Need antibiotics at dental visit
82	PDBUCMUC	Num	8	637	YNDKSP.	4.	Q1.Dental:Soft Tissue Exam:Buccal mucosa
75	PDCANCER	Num	8	581	YNDK.	3.	Q7.Surgery, radiation, chemo for cancer?
	PDCARIE1 PDCARIE2			413 421	YNDK. 3.	3. 3.	Probable Caries Caries: Number of
83	PDCHEEKS	Num	8	645	YNDKSP.	4.	teeth involved Q1.Dental:Soft Tissue Exam:Cheeks
68	PDCHSRD	Num	8	525	YNDK.	3.	Q3b.Dr told youcongenital heart dis?
	PDDATE PDDENTUR	Num Num			MMDDYY10. YNDK.	DATETIME22.3	Clinic Visit Exam Date DE2. Does participant
86	PDDORTON	Num	8	669	YNDKSP.	4.	wear dentures? Q1.Dental:Soft Tissue
77	PDELIG	Num	8	597	YNDK.	3.	Exam:Dorsal tongue Q11.Ppt eligible for periodontal assess?
	PDENDO PDFENPHN	Num Num			YNDK. YNDK.	3. 3.	Q3d.Dr told youendocarditis? Q10.Ever take FenPhen
88	PDFLOORM	Num	8	685	YNDKSP.	4.	to lose weight? Q1.Dental:Soft Tissue Exam:mouth floor
89 60	PDFLOWER PDFUPPER PDFURC1 PDFURC2		8	693	YNDKSP. YNDKSP. YNDK. 3.	4. 4. 3. 3.	Q2.Dental:Dentures:Full lower Q2.Dental:Dentures:Full upper Furciation Furciation: Number
95	PDGING	Num	8	741	YNDKSP.	6.	of teeth involved DE1: Soft Tissues/gingival
76	PDIMPLNT PDKIDNEY PDLABMUC	Num	8	589	YNDK. YNDK. YNDKSP.	3. 3. 4.	tissue Q1b.Any dental implants Q8.Are you on kidney dialysis Q1.Dental:Soft Tissue Exam:Labial mucosa
	PDLIPS PDLSTTH	Num Num		621 493	YNDKSP. 3.	4. 3.	Q1.Dental:Soft Tissue Exam:Lips Q1a.How many years
65	PDLTOOTH	Num	8	501	YNDKSP.	4.	ago lost last tooth Qla.How many years lost last tooth < lyr
	PDMOBIL1 PDMOBIL2			429 437	YNDK. 3.	3. 3.	Mobility Mobility: Number of teeth involved
	PDMURMUR PDMVP	Num Num			YNDK. YNDK.	3. 3.	Q3a.Dr told youheart murmur? Q3e.Dr told youmitral valve prolapse?
99	PDNATETH	Num	8	768	YNDK.	6.	DE3. Hard Tiss: Have any natural teeth?
93	PDNOPOS	Num	8	725	YNDKSP.	6.	DE1: Soft Tissues/no positive findings

-----Alphabetic List of Variables and Attributes-----

#	variable	Туре	Len	Pos	Format	Informat	Label
62 I	PDNTEETH 1	Num	8 4	177 Y	YNDK.	3.	Q1.Periodontal:any natural teeth?
	PDPACEM PDPALATE				YNDK. YNDKSP.	3. 4.	Q5.Have cardiac pacemaker? Q1.Dental:Soft Tissue Exam:Palate
92	PDPLOWER	Num	8	717	YNDKSP.	4.	Q2.Dental:Dentures:Partial
72	PDPRED	Num	8	557	YNDK.	3.	Q4.Taking any prednisone immunosuppress?
91	PDPUPPER	Num	8	709	YNDKSP.	4.	Q2.Dental:Dentures:Partial
69	PDRHD	Num	8	533	YNDK.	3.	Q3c.Dr told yourheumatic heart dis?
	PDROOT1 PDROOT2	Num Num		445 453	YNDK. 3.	3. 3.	Root fragment(s) Root fragments: Number of teeth involved
98	PDSTFID PDSTFID2 PDTRNPLT	Char	3	410 765 605		\$3. \$3. 3.	Staff ID Dental Exam: Staff ID# Q9.Had a heart,kidney,other
85	PDUVULA	Num	8	661	YNDKSP.	4.	transplant? Q1.Dental:Soft Tissue
74	PDVALVE	Num	8	573	YNDK.	3.	Exam:uvula Q6.Surgically implanted
87	PDVENTON	Num	8	677	YNDKSP.	4.	heart valve? Q1.Dental:Soft Tissue
103	PERFLAG	Num	8	800			Exam:vent tongue Flag set to 1 when ppt
4 102	RACE SITE VERSION YEAR	Num Num Num Num		_	RACE. SITE. 8.3	11. 11.	had periodontal e Race Clinic Site Data Analysis File Version # Year of Clinic Visit

					vai rabics	or acrea by	105121011
#	Variable	Туре	Len	Pos	Format	Informat	Label
2 3 4 5 6 7	HABCID RACE GENDER SITE ORALLES DENT_REC EXAMINER DENT_COD	Char Char	8 8 8 8 5 5 8	8 16 24 32	11. RACE. GENDER. SITE.	11. 11. 11. 11.	HABC Enrollment ID Race Gender Clinic Site Oral lesions1=yes0= no RECORDER Dental examiner Dental Track:1Ed 2PMD 3Elig 4ref 5tootc
10 11 12 13 14 15 16 17	NO_TEETH NO_TEET1 EDENT NPDSITES NPD_3 NPD_4 NPD_5 NPD_6 MEANPD	Num Num Num Num Num Num Num	8 8	98 106 114 122			TOTAL NUMBER OF NATURAL TEETH Edentulous YN Number PD Sites Number PD Sites >= 3mm Number PD Sites >= 4mm Number PD Sites >= 5mm Number PD Sites >= 6mm Mean PD
	EXTPD3 EXTPD4	Num		130 138			Extent PD >=3mm (NPD_3/NPDSITES) Extent PD >=4mm
	EXTPD5	Num		146			<pre>(NPD_4/NPDSITES) Extent PD >=5mm</pre>
21	EXTPD6	Num	8	154			<pre>(NPD_5/NPDSITES) Extent PD >=6mm (NPD_6/NPDSITES)</pre>
23 24	NALSITES NAL_3 MEANAL EXTAL3	Num Num Num Num	8 8	162 170 178 186			Number AL Sites Number AL Sites >=3mm Mean AL Extent AL >=3mm
27 28 29 30 31 32 33 34 35 36	MEANGI MEANPL BANARAT BANASITE BANA_RES FU16_46 FU17_47 FU26_36 FU27_37 FU14_44 FU15_45 FU24_34 FU25_35		8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	194 202 210 218 226 234 242 250 258 266 274 282 290			(NAL_3/NALSITES) Mean Gingival Index Score Mean Plaque Score Ratio of BANA-positive sites NUMBER OF BANA SITES SAMPLED Bana test result Function unit pair 16-46/molar Function unit pair 17-47/molar Function unit pair 26-36/molar Function unit pair 27-37/molar Function unit pair 14-44/bicuspid Function unit pair 15-45/bicuspid Function unit pair 24-34/bicuspid Function unit pair
	FU11_41	Num	8	298			25-35/bicuspid Function unit pair 11-41/anterior

#	variable	Туре	Len	Pos	Format	Informat	Label
	FU12_42 I	Num Num		306 314		1	Function unit pair 12-42/anterior Function unit pair
							13-43/anterior
42	FU21_31	Num	8	322			Function unit pair 21-31/anterior
43	FU22_32	Num	8	330			Function unit pair
44	FU23_33	Num	8	338			22-32/anterior Function unit pair
45	FUMOLAR	Num	8	346			23-33/anterior Total number functional
46	FUANT	Num	8	354			units on molar t Total number functional
47	FUBIC	Num	8	362			units on anterio Total number functional
							units on bicuspi
48	FUPOST	Num	8	370			Total number of posterior functional uni
49	FUTOTAL	Num	8	378			Total number of functional tooth units
50	FUS	Num	8	386			Posterior functional
51	FUSS	Num	8	394			tooth units score Total funcational
E 2	EDATE	Nium	0	402	MMDDVV10	MMDDVV6	tooth units score
	EDATE PDSTFID	Num Char		410	MMDDYY10.	\$3.	Exam Date Staff ID
	PDCARIE1				YNDK.	3.	Probable Caries
	PDCARIE2			421		3.	Caries: Number of
56	PDMOBIL1	Num	R	429	YNDK.	3.	teeth involved Mobility
	PDMOBIL2			437		3.	Mobility: Number
	·		_			-	of teeth involved
	PDROOT1 PDROOT2	Num Num		445 453	YNDK.	3. 3.	Root fragment(s) Root fragments: Number
33	FDROOTZ	Nulli	O	433	J.	J.	of teeth involved
	PDFURC1	Num			YNDK.	3.	Furciation
61	PDFURC2	Num	8	469	3.	3.	Furciation: Number of teeth involved
62	PDNTEETH	Num	8	477	YNDK.	3.	Q1.Periodontal:any
63	PDIMPLNT	Num	8	485	YNDK.	3.	natural teeth? Q1b.Any dental implants
	PDLSTTH	Num		493		3.	Ola How many years
65	PDLTOOTH	Num	8	501	YNDKSP.	4.	ago lost last tooth Qla.How many years lost
			•	500		2	last tooth < 1yr
66	PDANTIBI	Num	8	509	YNDK.	3.	Q2.Need antibiotics at dental visit
	PDMURMUR				YNDK.	3.	Q3a.Dr told youheart murmur?
ზმ	PDCHSRD	Num	ð	323	YNDK.	3.	Q3b.Dr told youcongenital heart dis?

#	Variable	Туре	Len	Pos	Format	Informat	Label
	PDENDO PDMVP	Num Num			YNDK. YNDK.	3. 3.	heart dis? Q3d.Dr told youendocarditis? Q3e.Dr told youmitral
72	PDPRED	Num	8	557	YNDK.	3.	valve prolapse? Q4.Taking any prednisone
	PDPACEM PDVALVE	Num Num			YNDK. YNDK.	3. 3.	immunosuppress? Q5.Have cardiac pacemaker? Q6.Surgically implanted
75	PDCANCER	Num	8	581	YNDK.	3.	heart valve? Q7.Surgery,radiation,chemo for cancer?
	PDKIDNEY PDELIG	Num Num			YNDK. YNDK.	3. 3.	Q8.Are you on kidney dialysis Q11.Ppt eligible for periodontal assess?
78	PDTRNPLT	Num	8	605	YNDK.	3.	Q9.Had a heart,kidney,other transplant?
79	PDFENPHN	Num	8	613	YNDK.	3.	Q10.Ever take FenPhen to lose weight?
	PDLIPS PDLABMUC	Num Num			YNDKSP. YNDKSP.	4. 4.	Q1.Dental:Soft Tissue Exam:Lips Q1.Dental:Soft Tissue Exam:Labial mucosa
82	PDBUCMUC	Num	8	637	YNDKSP.	4.	Q1.Dental:Soft Tissue Exam:Buccal mucosa
83	PDCHEEKS	Num	8	645	YNDKSP.	4.	Q1.Dental:Soft Tissue Exam:Cheeks
84	PDPALATE	Num	8	653	YNDKSP.	4.	Q1.Dental:Soft Tissue Exam:Palate
85	PDUVULA	Num	8	661	YNDKSP.	4.	Q1.Dental:Soft Tissue Exam:uvula
86	PDDORTON	Num	8	669	YNDKSP.	4.	Q1.Dental:Soft Tissue Exam:Dorsal tongue
87	PDVENTON	Num	8	677	YNDKSP.	4.	Q1.Dental:Soft Tissue Exam:vent tongue
88	PDFLOORM	Num	8	685	YNDKSP.	4.	Q1.Dental:Soft Tissue Exam:mouth floor
90	PDFUPPER PDFLOWER PDPUPPER	Num	8	701	YNDKSP. YNDKSP. YNDKSP.	4. 4. 4.	Q2.Dental:Dentures:Full upper Q2.Dental:Dentures:Full lower Q2.Dental:Dentures:Partial
92	PDPLOWER	Num	8	717	YNDKSP.	4.	upper Q2.Dental:Dentures:Partial
93	PDNOPOS	Num	8	725	YNDKSP.	6.	lower DE1: Soft Tissues/no
94	PDDENTUR	Num	8	733	YNDK.	6.	positive findings DE2. Does participant
95	PDGING	Num	8	741	YNDKSP.	6.	wear dentures? DE1: Soft Tissues/gingival tissue
97	YEAR PDDATE PDSTFID2	Num Num Char	8	749 757 765		DATETIME22.3 \$3.	Year of Clinic Visit Clinic Visit Exam Date Dental Exam: Staff ID#

Health ABC Project

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The CONTENTS Procedure

#	Variable	туре	Len	Pos	Format	Informat	Label
99	PDNATETH	Num	8	768	YNDK.	6.	DE3. Hard Tiss: Have any natural teeth?
100	DENTFLAG	Num	8	776			Flag set to 1 when ppt has Perio RC data
101	BANAFLAG	Num	8	784			Flag set to 1 when
	VERSION PERFLAG	Num Num		792 800	8.3		ppt has BANA data Data Analysis File Version # Flag set to 1 when ppt had periodontal e